



Attorney Docket No.: 14420US01

Previous Docket No.: DN 37882AAYC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

In the Application of:

Robert C. Meier

Serial No.:

09/960,256

Filed:

09/21/2001

For:

Redundant Radio Frequency

Network Having A Roaming Terminal

Communication Protocol

Examiner:

Group Art Unit: 2635

Conf. No.: 6754

TECH CENTER 1600/2900

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Technology Center 2600

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST, REVOCATION OF PRIOR POWERS AND CHANGE OF CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sirs:

We enclose a Power of Attorney by Assignee of Entire Interest, Revocation of Prior Powers and Change of Correspondence Address, and an Assignee Statement Under 37 C.F.R. §3.73(b).

Please charge any required fees or credit any overpayments to the deposit account of McAndrews, Held & Malloy, Ltd. Account No. 13-0017.

Respectfully submitted,

Date: 4/24/03

Reg. No. 38,174

McANDREWS, HELD & MALLOY, LTD. 500 West Madison Street Suite 3400 Chicago, Illinois 60661 (312) 775-8000

We, Broadcom Corporation, are the assignee of record in all the patents/patent applications identified in Exhibits A and B, which are attached hereto and incorporated herein in their entirety. As assignee of record of the entire interest of the identified patents/patent applications, we hereby revoke all powers of attorney previously given in such patents/patent applications, and appoint the following attorney(s) and/or agent(s) to prosecute and transact all business in the Patent and Trademark Office connected with such patents/patent applications.

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Reg. No. 52,151



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Exhibit A Assigned Patents

ocket No 👵	Patent No	Country	Tille	IssueDate	Inventor(
6500 4431US01	4910794	US	Mobile Radio Data Communication System & Method	03/20/1990	Ronald	Mahany
7139 4779US01	5052020	US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions	09/24/1991	Steven Ronald	Koenck Mahany
86500X 14382US01	5070536	US	Mobile Radio Data Communication System and Method	12/03/1991	Guy Marvin Ronald	West Sojka Mahany
36767XY 14383US01	5202817	US	Hand-Held Data Capture System With Interchangeable Modules	04/13/1993	Arvin Robert William	Danielson Geers Gibbs
			CEIVED 7 0 2 2003		Dennis Steven Ronald Phillip	Durbin Koenck Mahany Miller
		Technolo	gy Center 2600		George Keith Darald Darrell	Hanson Cargin, Jr. Schultz Boatwrigh
36767XZ 14439US01	5218187	US	Hand-Held Data Capture System with Interchangeable Modules	06/08/1993	Jeffrey Darald George Steven Phillip	Krunnfusz Schultz Hanson Koenck Miller
37882X 14444US01	5295154	US	Radio Frequency Local Area Network	03/15/1994	Robert	Meier
36767YXX 14341US01	5313053	US	Laser Scanner Module Having Integral Interfacing with Hand-Held Data Capture Terminal	05/17/1994	George Phillip Darald Jeffrey Steven	Hanson Miller Schultz Krunnfusz Koenck
36767XZX 14340US01	5331136	ÜŞ	Hand-Held Data Capture System with Interchangeable Modules	07/19/1994	George Phillip	Hanson Miller Schultz
		<i>∔</i> ,			Darald Jeffrey Steven	Krunnfus Koenck





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ocket No	Patent No	Country	Title	Issue Dates	Inventor(s	
7139XX	5365546		• • •	11/15/1994	William	Frede
4803US01			Controlling Modulation of Digital		Ronald	Mahany
		*	Signals in Frequency Modulated		Steven	Koenck
		40-14-14-1	Transmissions			
7882YC	5394436	US	Radio Frequency Local Area Network	02/28/1995	Robert	Meier
4777US01					Ronald	Mahany Luse
				- <u>-</u> -	Ronald	Luse .
6625X	4,924,462	US	Multiterminal Communication System	01/03/1989	Marvin So	jka
4342US01			and Method			
6767XYA/B	5418684	US	Hand-Held Data Capture System with	05/23/1995	George	Hanson
4386US01			Interchangeable Modules		Steven	Koenck
		R	ECEIVED		Ronald	Mahany
			-ULIVED		Keith	Cargin, Jr
•			MAY 0 2 2003	·	Arvin	Danielson Schultz
				•	Darald Dennis	Schultz Durbin
•	•	Tech	nnology Center 2600		Robert	Geers
·	. ,		mology certifet 2000		William	Gibbs
	<i>i</i> .				Darrell	Boatwrig
•					Phillip	Miller
37834ZX	5425051	US	Radio Frequency Communication	06/13/1995	Ronald	Mahany
14402US01			Network Having Adaptive Parameters		· • • • • • • • • • • • • • • • • • • •	
37882XA	5428636	US	Radio Frequency Local Area Network	06/27/1995	Robert	Meier
14400US01			1	1	a 	· · · · · · · · · · · · · · · · · · ·
36500XXX	5483676	US	Mobile Radio Data Communication	01/09/1996	Marvin	Sojka
14369US01			System and Method		Guy	West
. •	•				Ronald	Mahany
	3P		VI J. D. die Architectus for Disco	02/27/1006	Alan	Jovanovi
INT094-04	5495500	US	Homodyne Radio Architecture for Direct Sequence Spread Spectrum Data	02/2//1990	Alali	JOVALIOVI
14209US01			Reception			
37972C	5500872	US	Spread Spectrum Base Band Processor	03/19/1996	Ronald	Mahany
14233US01	5500012		opium opium min and anni i turiori		Patrick	Kinney
142330301				••	Steven	Koenck
		·				
37882YAX	5504746	US	Radio Frequency Local Area Network	04/02/1996	Robert	Meier
14773US01	-	• :		* * * * * * * * * * * * * * * * * * *		
36808XYC	5515303	US	Hand-held Computerized Data	05/07/1996	Darrell	Boatwrig
14346US01			Collection Terminal with Rechargeable	. :	William	Gibbs
			Battery Pack Sensor and Battery Power		Keith	Cargin, J
			Conservation		Ronald	Mahany
				•	Dennis	Durbin
		•	•		Darald	Schultz

		Mind the state of			200000000000000000000000000000000000000	
Docket No	Patent No	Country	orde .	Issue Date :	Inventor(s)	
36767XYC 14381US01	5530619	US,	Hand-held Data Capture System with Interchangeable Modules and Side- Mounted Function Key	.00	Ronald Dennis William George	Mahany Durbin Gibbs Hanson
					Arvin Keith Darald	Danielson Cargin, Jr. Schultz
	. :				Robert Steven Darrell	Geers Koenck Boatwright
		,			Phillip	Miller
37940E 14350US01	5539193	US	Modular Hand-Held Data Entry System	07/23/1996	Darrell Keith Arvin	Boatwright Cargin, Jr. Danielson
		*			Richard Glen	Arensdorf Adams
	, ja				Steven Dennis George	Koenck Durbin Hanson
					Ronald Robert	Mahany Geers
					Darald William	Schultz Gibbs
					Phillip James	Miller Hutton
37940F	5539194	US	Modular Hand-Held Data Entry System	07/23/1996	Darald	Schultz
14779US01					George Phillip	Hanson Miller
		•			Steven	Koenck
					Glen Dennis	Adams Durbin
		•			Ronald William	Mahany Gibbs
	*				Robert Richard	Geers Arensdorf
					Arvin Keith	Danielson Cargin, Jr.
		140	*		James Darrell	Hutton Boatwright
						
38050B 14403US01	5546397	US	High Reliability Access Point for Wireless Local Area Network	08/13/1996	Ronald	Mahany
37139XXA 14783US01	5555276	US	Method of and Apparatus for Controlling Modulation of Digital	09/10/1996	Ronald William	Mahany Frede
14/05/03/1			Signals in Frequency - Modulated Transmissions		Steven .	Koenck

ocket No	Patent No	Country	Tritle 147	Issue Date.	Inventor(S) = 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3
NT093-49 4338US01	5565670	US.	Cordless RF Link for Bar Code Input Device Modulating Impulses Corresponding to Data State Transitions	10/15/1996	John -	Flaherty
6767XZXX 4774US01	5567925	US	Hand-Held Data Capture System with Interchangeable Modules	10/22/1996	Darald George Jeffrey Phillip	Schultz Hanson Krunnfusz Miller
			™		Steven	Koenck
7998XB 4391US01	5574979	US	Periodic Interference Avoidance in a Wireless Radio Frequency Communication System	11/12/1996	Guy	West
8017 4370US01	5590346	US	Antenna Cap for Computer Device Utilizing a Radio Card	12/31/1996	Guy Ronald	West Mahany
NT093-09C	5602380	US	Barcode Scanner-Reader Wireless Infrared Link	02/11/1997	Jon	Bishay
37967B 14392US01	5602854	US	Wireless Personal Local Area Network Utilizing Removable Frequency Modules with Digital Interfaces and Idle Sense Communication Protocol	02/11/1997	Charles Ronald Guy Ronald	Gollnick Luse West Mahany
INT090-05C 14399US01	5610595	US	Packet Radio Communication System Protocol	03/11/1997	Gary Joseph Jay	Garrabrant Savarese Cho
38157 14404US01	5627412	US	Dynamically Switchable Power Supply	05/06/1997	Paul	Beard
37998XD 14405US01	5657317	US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking	08/12/1997	Ronald Guy	Mahany West
37882AXX 14375US01	5673031	US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol	09/30/1997	Robert	Meier
37977B 14784US01	5679943	US	Hand-Held Terminal with Display Screens, Interactive Screens, Magnetic Credit Card Readers, Scanners, Printers and Handlers	10/21/1997	John Darald Steven Mark	Rohde Schultz Koenck Rasmussen
36767XZAB 14786US01	5680633	US	Modular, Portable Data Processing Terminal for use in a Radio Frequency Communication Network	10/21/1997	Patrick Guy Steven Ronald Phillip	Kinney West Koenck Mahany Miller

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Docket No. 3	Patent No	Country	luie	Issue Date	Inventor(s	
7967C	5682379	US;	Wireless Personal Local Area Network	10/28/1997	Charles	Gollnick
.4414US01					Guy	West
					Ronald	Luse
		• .			Ronald	Mahany
<u> </u>					* *	
37998G	5696903	US	Hierarchical Communications System	12/09/1997	Ronald	Mahany
14772US01			using Microlink, Data Rate Switching,			
	•	· .	Frequency Hopping and Vehicular Local Area Networking			
				12/30/1997	Duese	Chaman
NT094-11	5703950	US	Method and Apparatus for Controlling Country Specific Frequency Allocation	12/30/1997	Duane Steven	Charron Duke
14394US01			Country Specific Frequency Affocation		Alan	Jovanovich
		1 :			ruun	JOVANOVICA
	**************************************	TIC.	Network Utilizing a Controller and Base.	01/13/1008	Charles	Gollnick
37834YYB	5708680	US	Transceivers to Route Voice Packets	VIIIIII 1990	Ronald	Mahany
14347US01	**	•	Transcervers to Route voice rackers		Marvin	Sojka
					Richard	Arensdorf
					Ronald	Luse
				•	Mary	Detweiler
				٠.	Keith	Cargin, Jr.
	•	•			James	Chossen
					John	Pavek
,					Amos	Young
					Guy	West
					Gary	Spiess
					Arvin	Danielson
					1 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	117
38000FB	5708833	US	Antenna Cap, Antenna Connectors and	01/13/1998	Guy	West
14390US01			Telephone Line Connectors for		Ronald Patrick	Mahany Kinney
-			Computer Devices Utilizing Radio and Modem Cards	•	rautek	Runicy
220001/6	572.600.4	TIC	Hierarchical Data Collection Network	03/10/1998	Joseph	Kubler
37998XG	5726984	US	Supporting Packetized Voice	UJI 10/1770	Michael	Morris
14776US01			Communications Among Wireless		1/11011401	
			Terminals and Telephones			•
20000	6724696	US	Method and Apparatus for Sequencing	03/31/1998	Paul	Beard
38099A	5734585	US	Power Delivery in Mixed Supply	03/31/1770	1 dui	Dourd
14368US01		•	Computer Systems	•	,	
2700217	5740366	TIC	Communication Network Having a	04/14/1998	Ronald	Mahany
37882YD	5740366	US	Plurality of Bridging Nodes which	UT/ 17/ 1770	Ronald	Luse
14417US01			Transmit A Beam to Terminal Nodes in		Robert	Meier
1			Power Saving State that it Has Messages	; ,		
			Awaiting Delivery	•		
36808YXCB	5747786	US	Communication Module for a Data	05/05/1998	Dennis	Durbin
14440US01	3141100	US	Capture System	02.23, 1330	Darrell	Boatwright
***************************************	•			•	Ronald	Mahany
				•	Darald	Schultz
3		· · ·			Keith	Cargin, Jr.

očket No.	Patent No	Country	True	Issue Date	Inventor(s),74 1 (4.5.4
8009EA 4373US01	5748619	US;	Communication Network Providing Wireless and Hard-Wired Dynamic Routing	05/05/1998	Robert	Meier
8072 4377US01	5748676	US	Network Utilizing Modified Preambles that Support Antenna Diversity	05/05/1998	Ronald	Mahany
7998XE 4393US01	5790536	US	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration	08/04/1998	Guy Ronald Michael Robert	West Mahany Morris Meier
					Arvin	Danielson
36837E 14441US01	5805807	US	Multilevel Data Communication System Including Local and Host Systems	09/08/1998	Ronald Arvin Phillip	Mahany Danielson Miller
				• · ·	Guy Keith George	West Cargin, Jr. Hanson
					Steven Steven	Koenck Salvay
37834YYA 14434US01	5844893	US	System for Coupling Host Computer Meanswith Base Transceiver Units on a Local Area Network	12/01/1998	Keith Marvin Mary Robert	Cargin, Jr. Sojka Detweiler Geers
					Guy Gary John	West Spiess Pavek
					Ronald Arvin Richard	Mahany Danielson Arensdorf Young
					Amos Charles James Ronald	Gollnick Chossen Luse
37834ZXA 14234US01	5862171	US	Radio Frequency Communication Network Having Adaptive Communication Parameters	01/19/1999	Ronald	Mahany
38017A 14437US01	5870279	US	Antenna Cap for Computer Device Utilizing a Radio Card	02/09/1999	Guy Ronald	West Mahany
38066X 14800US01	5880867	US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel	03/09/1999	Ronald	Mahany
38066A 14804US01	5880868	US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel	03/09/1999	Ronald	Mahany

Docket No	Patent No.	Country	Title 3/2 Sales Sales	Issue Date :	Inventor(s	
36500YZCXA 14436US01	5896561	US;	Communication Network Having a Dormant Polling Protocol	04/20/1999	Steve Ronald	Schrader Mahany
36767XYD 14385US01	5898162	US	Hand-Held Data Capture System with Interchangeable Module	04/27/1999	Dennis Darrell William	Durbin Boatwright Gibbs
	18.1			*	Robert George Phillip	Geers Hanson - Miller
					Steven Ronald Keith	Koenck Mahany Cargin, Jr.
	* .			· · · · · · · · · · · · · · · · · · ·	Arvin Darald	Danielson Schultz
INT096-32 14395US01	5912921	US	Concurrent Multiple Data Rate Communications in a Wireless Local Area Network	06/15/1999~	John Alan	Mensonides Jovanovich
37139XXB 14435US01	5912926	US	Method and Apparatus for Controlling Modulation of Digital Signals in Frequency Modulated Transmissions	06/15/1999	Ronald Steven William	Mahany Koenck Frede
37940G 14432US01	5917175	US	Modular Hand-Held Data Entry System with Voice Interface	06/29/1999	Ronald Steven George William Arvin	Mahany Koenck Hanson Gibbs Danielson
	,····				Darrell Dennis Phillip Darald	Boatwright Durbin Miller Schultz
					Keith Robert	Cargin, Jr. Geers
INT094-11C 14390US01	5940509	US	Method and Apparatus for Controlling Country Specific Frequency Allocation	08/17/1999	Steven Duane Alan	Duke Charron Jovanovich

Docket No ava	Patent No.		orne	Issue Date	Inventor	
37834XXBX 14413US01	5940771	US,	Network Supporting Roaming, Sleeping Terminals	THE WAY THE WAY TO THE PARTY	Mary Guy Ronald Keith Richard Ronald Robert Robert Charles James Arvin Gary Marvin John Amos	Detweiler West Luse Cargin, Jr. Arensdorf Mahany Meier Geers Gollnick Chossen Danielson Spiess Sojka Pavek Young
INT096-30 14384US01	5946344	US	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chipping Rate and Variable Spreading Code Lengths	08/31/1999	Alan John Duane	Jovanovich Mensonides Charτon
37998XDA 14412US01	5949776	US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking	09/07/1999	Ronald Guy	Mahany West
38050BAY 14397US01	5960344	US	Local Area Network Having Multiple Channel Wireless Access	09/28/1999	Ronald	Mahany
INT096-25 14372US01	5982812	US	Method and Apparatus for Monitoring Frequency Synthesizer Locking Time	11/09/1999	John Alan	Mensonides Jovanovich
38190R 14343US01	5990733	US	Delay Line Ramp Demodulator	11/23/1999	Ronald Tom	Mahany Schuster
38000EA 14802US01	5991864	US	Power Connectors, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards	11/23/1999	John Ronald Patrick	Mallard Mahany Kinney
INT097-06 14212US01	6005530	US	Switched Gain Antenna for Enhanced System Performance	12/21/1999	John Alan	Mensonides Jovanovich
INT095-35 14401US01	6005885	US	Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words	12/21/1999	Alan John	Jovanovich Mensonides

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Dockerno all	Kutent No.	St. dist. alt. merities (m. 1761)	And the second s	Issue Date	THYEUTOTES	
6649XZC 4433US01	6006100	US,	Multi-Level, Hierarchical Radio- Frequency Communication System	12/21/1999	Steven George Keith Arvin Steven	Salvay Hanson Cargin, Jr. Danielson Koenck
	÷				Phillip Ronald Guy	Miller Mahany West
INT096-29 14210US01	6009119	US	Adaptive Power Leveling of an RF Transceiver Utilizing Information Stored in Non-Volatile Memory	12/28/1999	John Alan	Mensonides Jovanovich
36767XZAC 14415US01	6014705	US	Modular Portable Data Processing Terminal Having A Higher Layer and Lower Layer Partitioned Communication Protocol Stack for use in a Radio Frequency Communication Network	01/11/2000	Guy Patrick Steven Ronald Phillip	West Kinney Koenck Mahany Miller
38072A 14213US01	6018555	US	Network Utilizing Modified Preambles that Support Antenna Diversity	01/25/2000	Ronald	Mahany
36808YXCD 14775US01	6023147	US.	Hand-Held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation	02/08/2000	Darrell Darald Keith Dennis Ronald William	Boatwright Schultz Cargin, Jr. Durbin Mahany Gibbs
37882YAYA 14389US01	6046992	US	A Radio Frequency Local Area Network	04/04/2000	Robert Ronald	Meier Luse
INT096-31 14438US01	6075807	US	Windowed Digital Matched Filter Circuit for Power Reduction in Battery- Powered CDMA Radios	06/13/2000	John Alan	Mensonides Jovanovich
37882XBA 14387US01	6084867	US	Apparatus and Method of Routing Data in a Radio Frequency Local Area Network	07/04/2000	Robert	Meier
INT094-03C2 14388US01	6118807*	US	Methodology For Received Signal Enhancement Utilizing Delay Diversity Processing	09/12/2000	Alan Bruce Frank	Jovanovich WARREN PERGAL
38340R1 114416US01	6172712	US	Television with Hard Disk Drive	01/09/2001	Paul	Beard .

ocket Novas	Patent No	Country	Title	Issue Date:	Inventor(s)
6837EA 4380US01	6192400	US;	Multilevel Data Communication System Including Local and Host Systems	02/20/2001	Guy Steven Ronald	West Salvay Mahany
					Arvin Phillip George	Danielson Miller Hanson
			*		Steven Keith	Koenck Cargin, Jr.
6767XYE	6244512	US	Hand-Held Data Capture System with	06/12/2001	Arvin Ronald	Danielson Mahany
4351US01			Interchangeable Modules		Darald	Schultz
					Phillip	Miller
					Steven	Koenck
		. * *			Darrell	Boatwright
	•	•			George	Hanson
					Keith Robert	Cargin, Jr. Geers
		., •			William	Gibbs
		*			Dennis	Durbin
					Deimis	Durom
38234RX 14780US01	6281850	US	Broadband Multiple Element Antenna System	08/28/2001	Daniel .	Klosterman
INT097-02	6320896	US	RF Receiver Having Frequency-	11/20/2001	Alan	Jovanovich
14439US01			Hopping/Direct-Sequence Spread Spectrum Signal Discrimination		John	Mensonide
INT097-03	6327312	US	RF Narrowband/Wideband	12/04/2001	Alan	Jovanovich
14396US01			Discriminating System for Spread Spectrum Signal Differentiation		John	Mensonide
37967CA	6359872	US	Wireless Personal Local Area Network	03/19/2002	Ronald	Mahany
14427US01					Guy .	West
	•				Charles	Gollnick
					Ronald	Luse
37882YE	6374311	US	Radio Frequency Local Area Network	04/16/2002	Ronald	Mahany
14374US01	٠.	•			Ronald	Luse
					Robert	Meier
37998XGA	6389010	US	Hierarchical Data Collection Network	05/14/2002	Joseph	Kubler
14379US01	,,		Supporting Packetized Voice Communications Among Wireless Terminals and Telephones		Michael	Morris
37882XBB	6400702	US	A Radio Frequency Local Area Network	06/04/2002	Robert	Meier

Docket No.	Patent No.	Country		Issue Date	Spine . Cart State and Part L .	or A track of the second second second
38009EBA	6407991	US,	Communication Network Providing	06/18/2002	Robert	Meier
14344US01			Wireless and Hard-Wired Dynamic	*	•	
	•		Routing		• •	

Exhibit B

Assigned Patent Applications

ockei No	Serial No	Country	Title 2.	Filing Date	Inventor(s	
6500ZXD 4419US01	10/057816	US	Remote Radio Data Communication System with Data Rate Switching	01/24/2002		Mahany
8127 4425US01	08/513658	US	Modular, Portable Data Processing Terminal For use in a Communication Network	08/11/1995	Phillip Robert Ronald Patrick Steven	Miller Meier Mahany Kinney Koenck
88050BB 14418US01	09/357429	US	Local Area Network Having Multiple Channel Wireless Access	07/20/1999	Ronald	Mahany
38157XA 14421US01	09/735406	US	Battery Powered Device with Dynamic Power and Performance Management	12/12/2000	Paul	Beard
37882AAÝC ľ4420US01	09/960265	US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol	09/21/2001	Robert	Meier
38163AY 14211US01	08/973195	US	Spread Spectrum Transceiver Module Utilizing Multiple Mode Transmission	03/06/2000	Ronald	Mahany
37967X 14426US01	08/499328	US	Transaction Control System Including Portable Data Terminal and Mobile Customer Service Station	07/07/1995	George Roger Robert Ronald Phillip Steven	Hanson Wolf Meier Mahany Miller Koenck
38000FBA 14208US01	09/006566	US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Utilizing Radio and Modem Cards	01/13/1998	Guy Ronald Patrick	West Mahany Kinney
37998XEB 14409U01	09/723930	US	Hierarchical Communications System	11/28/2000	Ronald	Mahany

Docket No	Serial 2	Country	Title	Filing Date:	Inventors	1
	No 🤐 📜					
37967XA (09/123875	US	Enhanced Mobility and	07/28/1998	Steven	Salvay
4204US01			Address Resolution in a	,	Ronald	Mahany
•			Wireless Premises Based		Steven	Koenck
			Network		Charles	Gollnick '
:					George	Hanson
			=	00	Roger	Wolf
			WC	•	Guy	West
		* .		•	Ronald	Luse
					Keith Arvin	Cargin, Jr Danielson
			·		Phillip	Miller
	٠	·			Robert	Meier
		•			RODGIT	1710101
37834YY1	09/972749	US	System for Coupling a	10/08/2001	Ronald	Mahany
14408US01	و ا ۱ ا و ارب		Multiplicity of RF Data		Ronald	Luse
			Collection Terminals with		Amos	Young
			Host Computer Means	-	Guy	West
					Marvin	Sojka
					Charles	Gollnick
	·				Robert	Geers
	•			•	Mary	Detweiler
					Arvin	Danielsor
	•			. ,	James	Chossen
· .					Keith	Cargin, Ji
					Richard	Arensdor
				-	John	Pavek
					Gary	Spiess
37834ZXC	09/799340	TIC	Radio Frequency	03/05/2001	Ronald	Mahany
14422US01	09/199540		Communication Network	03/03/2001	200	
14422US02		•	Having Adaptive	-		
144220302			Communication Parameters			
36649XZD	09/467255	US	Multi-Level, Hierarchical	12/20/1999	Keith	Cargin, J
14423US01		;	Radio-Frequency		Phillip	Miller
7 120 300 1			Communication System		Ronald	Mahany
					Steven	Salvay
					Steven	Koenck
	•,		-		George	Hanson
					Guy	West
		н.			Arvin	Danielso
0.000000	00/60#21=	TIC	Madulas Dartabla Data	06/19/2000	Steven	Koenck
36767XZAE	09/597917	. US	Modular Portable Data	00/19/2000	Guy	West
14410US01			Processing Terminal for use in a Radio Frequency	* *	Ronald	Mahany
,	•		Communication Network	• • •	Phillip	Miller
			COMMITMENTAL LACEMONY			
		٠.	•		Patrick	Kinnev-
					Patrick	Kinney
37882YAYB	09/542424	US	A Radio Frequency Local	04/04/2000		Meier

Docket No	Serial #	Coun	try	Title			-575.65
DOCKE	Nocieta	10.0			Filing Date	inventore	
38477RX	09/954520	US	- 11000	Integrated Cable Modem and	09/17/2001	Daniel	Bishop
14424US01				Cable Television		Michael	Morris
				Management System	**		
37967CAA	10/101436	US .		Wireless Personal Local Area	03/19/2002	Charles	Gollnick.
14407US01			• .	Network		Ronald	Mahany
						Guy	West
						Ronald	Luse
	•				<u> </u>		
37882YEA	10/123873	US		Radio Frequency Local Area	04/16/2002	Ronald	Luse
14406US01				Network		Robert	Meier
						Ronald -	Mahany
37998XGB	10/141506	US	•	Hierarchical Data Collection	05/08/2002	Michael	Morris
14364US01				Network Supporting	,	Joseph	Kubler
		.•		Packetized Voice		•	
				Communications Among Wireless Terminals and			
				Telephones	•	. "	
37882XBC	10/162229	TIC	-		06/04/2002	Robert	Maine
14236US01	10/102229	US		Radio Frequency Local Area Network	00/04/2002	Robert	Meier
38009EBB	10/144250	TIC		Communication Network	05/13/2002	Dohort	Meier
14207US01	10/144230	US		Providing Wireless and Hard-	03/13/2002	Robert	Melei
142070001				Wired Dynamic Routing	•		
37834XXBY	09/318668	ZII		Network Supporting	05/25/1999	Ronald	Mahany
14206US01	02/210000	00		Roaming, Sleeping Terminals	03/23/1333	Ronald	Luse
		•				Amos	Young
						Guy	West
		•		•		Marvin	Sojka
		•		. •		Charles	Gollnick
						Robert	Geers
				•		Mary	Detweiler
	•					Arvin 🐪	Danielson
5	٠.					James	Chossen
						Keith	Cargin, Jr.
	· .			•		Richard	Arensdorf
					•	John	Pavek
	131				•	Gary	Spiess
						Robert	Meier
36808XYE	08/921485	TIC		Hand-Held Computerized		Alfred	Vacile !
14231US01	00/921403	US	· ·	Hand-Held Computerized Data Collection Terminal		Alfred	Koelle
142310301			. •,	Data Consection Territinal		Jeremy	Landt
			, o in all lands and share	The first purpose that the first transfer with a service to the first transfer of the service		Vandi and have and and and and and and	

6767XB 08/478,488 US 4366US01	Hand-Held Data Capture System with Interchangeable Modules	06/07/95	Steven Phillip Arvin	Koenck Miller Danielson
			Ronald	Mahany
			Dennis	Durbin
		12	Keith	Cargin
			George	Hanson
		. *	Darald.	Schultz
		• • • • • • • • • • • • • • • • • • • •	Robert	Geers .
			Darrel William	Boatwrigh Gibbs
			Stephen	Kelly
38477R1 09/805,589 US 14411US01	Integrated Cable Modem and Cable Television Management System	03/13/01	Daniel Michael	Bishop Morris
	1.1			(a)

Exhibit C

ASSIGNMENT

THIS ASSIGNMENT is made and effective as of the 24th day of December, 2002. by INTERMEC IP CORP. (hereinafter referred to as the "ASSIGNOR"), a company organized and existing under the laws of Delaware, having a principal place of business at 21900 Burbank Boulevard, Woodland Hills, CA 91367.

WITNESSETH

WHEREAS, said ASSIGNOR is the owner of the entire right, title and interest in and to the Patent Applications and Patents in the United States of America and other foreign countries, set forth in Attachment A hereto;

WHEREAS, BROADCOM CORPORATION, a company organized and existing under the laws of Delaware, having a principal place of business at 16215 Alston Parkway, Irvine, California 92619, (the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to such Patents Applications and Patents, both from the United States and foreign.

Now therefore, in exchange for receipt of good and sufficient consideration, the receipt and sufficiency of which is hereby acknowledged, and as agreed to by the ASSIGNEE and ASSIGNOR, ASSIGNOR hereby assigns and transfers to ASSIGNEE and ASSIGNEE accepts, all of the rights, title and interest of ASSIGNOR throughout the World in and to any and all inventions claimed or disclosed in such Patents and Patent Applications which are set forth and listed in Attachment A hereto.

This Assignment includes all of ASSIGNOR's right, title and interest in, to and under each of the Patent Applications and Patents set forth and listed in Attachment A hereto (including, without limitation, rights to damages and payments for past, present or future infringements or misappropriations), and, as agreed between the parties, all continuations, continuations-in-part, divisionals, substitute, reexaminations, post-opposition foreign counterpart patents, and applications, reissues and extensions thereof, if any; and, ASSIGNOR requests the Commissioner of Patents of the United States (and all foreign officials, whose duty it is to issue patents on applications as aforesaid) to record ASSIGNEE as the owner of such Patent or Application, to the same extent as held by ASSIGNOR, and to issue the Letters Patent for said Patents to be in the name of the said ASSIGNEE, as an assignee of the Patents.

INTERMEC IP CORP., ASSIGNOR BROADCOM CORP., ASSIGNEE County of Los Angeles State of California BJ Brock, Notary Public On December 23, 2002, before me, _ appeared Daniel S. Bishop , personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the entity upon behalf of which he/she acted, executed the instrument. WITNESS my hand and official seal: **NOTARY PUBLIC** B. J. BROCK

Commission #1248605 Notary Public - California Las Angeles County My Comm. Expires Jan 7, 2004

County of Orange
State of California)
On January 17, 2003, before me, Virginia Lee Nowicki, Wotan, Public personally
appeared William J Ruehle, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that heahe executed the same is kissher authorized capacity, and that by hisher signature on the instrument, the entity upon
behalf of which he/she acted, executed the instrument. WITNESS my hand and official seal:
NOTARY PUBLIC
VIRGINIA LEE NOWICKI Commission # 1313422 Notary Public - California Orange County My Comm. Expires Aug 10, 2005

ATTACHMENT A

Docket No	Patent No. Serial	Country	Tottle Total
6500	4910794	US	Mobile Radio Data Communication System & Method
6500ZXD	10/057810		Remote Radio Data Communication System with Data Rate Switching
6625X	4924462	US	Multiterminal Communication System and Method
37139	5052020	US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions
37139X/CA	2074169	CA	Method of and Apparatus For Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions
36500X	5070536	US	Mobile Radio Data Communication System and Method
	1316218	CA	Mobile Radio Data Communication System and Method
	2223914	GB	Mobile Radio Data Communication System and Method
36767XY	5202817	US	Hand-Held Data Capture System With Interchangeable Modules
36767XZ	5218187	US	Hand-Held Data Capture System with Interchangeable Modules
	678135	AU	Hand-Held Data Capture System with Interchangeable Modules
	69231057.6	DE	Hand-Held Data Capture System with Interchangeable Modules
	573567	GB	Hand-Held Data Capture System with Interchangeable Modules
	21047	88 CA	Hand-Held Data Capture System with Interchangeable Modules
	573567	FR	Hand-Held Data Capture System with Interchangeable Modules
37882X	5295154	US	Radio Frequency Local Area Network
36767YXX	5313053	US	Laser Scanner Module Having Integral Interfacing with Hand-Held Date Capture Terminal
36767XZX	5331136	US	Hand-Held Data Capture System with Interchangeable Modules
38127	08/5136	S8 US	Modular, Portable Data Processing Terminal For use in a Communication Network
37139XX	5365546	US	Method of and Apparatus for Controlling Modulation of Digital Signal in Frequency Modulated Transmissions
37882YC	5394436	US	Radio Frequency Local Area Network
36767XB	08/4784	88 US	Hand-Held Data Capture System with Interchangeable Modules
36767XYA	5418684	US	Hand-Held Data Capture System with Interchangeable Modules
37834ZX	5425051	US	Radio Frequency Communication Network Having Adaptive Paramete
37882XA	5428636	US	Radio Frequency Local Area Network
36500XXX	5483676	US	Mobile Radio Data Communication System and Method
INT094-04	5495500	US	Homodyne Radio Architecture for Direct Sequence Spread Spectrum Data Reception
37972C	5500872	US	Spread Spectrum Base Band Processor

Docket No	Patent No.	Senial S No.	Country	Title
7882YAX	5504746		US	Radio Frequency Local Area Network
ON 37882YPCT		02012917.7	EP	Radio Frequency Local Area Network
	664864		AU	Radio Frequency Local Area Network
• • • • • • • • • • • • • • • • • • • •	701114		AU	Radio Frequency Local Area Network
6808XYC	5515303		US	Hand-held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation
6808XYE		08/921485	US	Hand-Held Computerized Data Collection Terminal
36767XYC	5530619		US	Hand-held Data Capture System with Interchangeable Modules and Side-Mounted Function Key
37940E	5539193		US	Modular Hand-Held Data Entry System
37940F .	5539194		US	Modular Hand-Held Data Entry System
38050B	5546397		US	High Reliability Access Point for Wireless Local Area Network
38050BB		09/357429	US	Local Area Network Having Multiple Channel Wireless Access
37139XXA	5555276		US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency - Modulated Transmissions
INT093-49	5565670		US	Cordless RF Link for Bar Code Input Device Modulating Impulses Corresponding to Data State Transitions
36767XZXX	5567925		US	Hand-Held Data Capture System with Interchangeable Modules
37998XB	5574979	:	US	Periodic Interference Avoidance in a Wireless Radio Frequency Communication System
38017	5590346		US	Antenna Cap for Computer Device Utilizing a Radio Card
INT093-09C	5602380		US	Barcode Scanner-Reader Wireless Infrared Link
37967B	5602854		US	Wireless Personal Local Area Network Utilizing Removable Frequency Modules with Digital Interfaces and Idle Sense Communication Protoco
INT090-05C	5610595		US	Packet Radio Communication System Protocol
38157	5627412		US	Dynamically Switchable Power Supply
38157XA		09/735406	US	Battery Powered Device with Dynamic Power and Performance Management
37998XD	5657317		US	Hierarchical Communication System Using Premises, Peripheral and Vehicular Local Area Networking
37882AXX	5673031		US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol
37882AAYC		09/960265	US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol
37977B	5679943	,	US	Hand-Held Terminal with Display Screens, Interactive Screens, Magnetic Credit Card Readers, Scanners, Printers and Handlers
36767XZAB	5680633		US	Modular, Portable Data Processing Terminal for use in a Radio Frequency Communication Network

Docket No	Patent No	Serial (No	ountry	Tille
38163AY	And Harrison and Andrews	08/973195	US	Spread Spectrum Transceiver Module Utilizing Multiple Mode Transmission
37967C	5682379		US	Wireless Personal Local Area Network
	696841		AU	Wireless Personal Local Area Network
		2152598	CA	Wireless Personal Local Area Network
	•••	94905966.1	- 20	Wireless Personal Local Area Network
			EP	
37967X		08/499328	US	Transaction Control System Including Portable Data Terminal and Mobile Customer Service Station
37998G	5696903		US	Hierarchical Communications System using Microlink, Data Rate Switching, Frequency Hopping and Vehicular Local Area Networking
INT094-11	5703950		US	Method and Apparatus for Controlling Country Specific Frequency Allocation
37834YYB	5708680		US	Network Utilizing a Controller and Base Transceivers to Route Voice Packets
38000FB	5708833	1	US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards
38000FBA		09/006566	US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Utilizing Radio and Modem Cards
37998XG	5726984	•	US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones
38099A	5734585		US	Method and Apparatus for Sequencing Power Delivery in Mixed Supply Computer Systems
37882YD	5740366		US	Communication Network Having a Plurality of Bridging Nodes which Transmit A Beam to Terminal Nodes in Power Saving State that it Has Messages Awaiting Delivery
36808YXCB	5747786	9 	US	Communication Module for a Data Capture System
38009EA	5748619		US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
	67959	3	AU	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
38000G/EP		94916663.1	EP	Multiple Antenna Selection and Antenna Cap for Computer Devices Utilizing Radio and Modern Cards
38072	5748676	•	US	Network Utilizing Modified Preambles that Support Antenna Diversity
37998XE	5790536		US	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration
er en	70080	0	AU	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration
	71562	.8	AU	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration
37998XE/EP		95927421.8	EP	Hierachical Communication System Providing Intelligent Data Program

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-Docket No	Patent No	Serial S	Country	eTitle,
	AMERICA DE SERVICIO	A CONTRACTOR ST. STATES		and Processing Migration
7998XEB	· · · · · · · · · · · · · · · · · · ·	09/723930	US	Hierarchical Communications System
7967XA		09/123875	US	Enhanced Mobility and Address Resolution in a Wireless Premises Based Network
6837E	5805807		US	Multilevel Data Communication System Including Local and Host Systems :
7834YYA	5844893	3 <u></u>	US	System for Coupling Host Computer Meanswith Base Transceiver Units on a Local Area Network
7834YY1		09/972749	US	System for Coupling a Multiplicity of RF Data Collection Terminals with Host Computer Means
37834ZXA	5862171		US	Radio Frequency Communication Network Having Adaptive Communication Parameters
37834ZXC		09/799340	US	Radio Frequency Communication Network Having Adaptive Communication Parameters
38017A	5870279		US	Antenna Cap for Computer Device Utilizing a Radio Card
38066X	5880867		US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel
38066A	5880868		US	Infrared Backbone Communication Network Having a Radio Frequence Backup Channel
36500YZCXA	5896561		US	Communication Network Having a Dormant Polling Protocol
36767XYD	5898162		US	Hand-Held Data Capture System with Interchangeable Module
INT096-32	5912921		US	Concurrent Multiple Data Rate Communications in a Wireless Local Area Network
37139XXB	5912926		US	Method and Apparatus for Controlling Modulation of Digital Signals in Frequency Modulated Transmissions
37940G	5917175		US	Modular Hand-Held Data Entry System with Voice Interface
INT094-11C	5940509		US	Method and Apparatus for Controlling Country Specific Frequency Allocation
37834XXBX	5940771		US	Network Supporting Roaming, Sleeping Terminals
37834XXBY		09/318668	US	Network Supporting Roaming, Sleeping Terminals
INT096-30	5946344		US	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chippin Rate and Variable Spreading Code Lengths
INT 096-30JP		10-542772	JP	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chipping R and Variable Spreading Code Lengths
37998XDA	5949776		US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking
38050BAY	5960344		US	Local Area Network Having Multiple Channel Wireless Access
INT096-25	5982812		US	Method and Apparatus for Monitoring Frequency Synthesizer Locking Time
38190R	5990733		US	Delay Line Ramp Demodulator
38000EA	5991864		US	Power Connectors, Antenna Connectors and Telephone Line Connector

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		Serial	Country	
Docket No.	Patent No	No ty		Title
				for Computer Devices Utilizing Radio and Modem Cards
NT097-06	6005530		US	Switched Gain Antenna for Enhanced System Performance
NT095-35	6005885	· · · · · · · · · · · · · · · · · · ·	US	Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words
36649XZC	6006100	•	ŪS	Multi-Level, Hierarchical Radio-Frequency Communication System
	b	96116280.7	EP	
	641541		AU	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298		GB	Multi-Level, Hierarchical Radio-Frequency Communication System
•	494298		DE	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298		ES	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298		FR	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298		IT	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298		NL	Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZD		09/467255	US	Multi-Level, Hierarchical Radio-Frequency Communication System
INT096-29	6009119		US	Adaptive Power Leveling of an RF Transceiver Utilizing Information Stored in Non-Volatile Memory
36767XZAC	6014705		US	Modular Portable Data Processing Terminal Having A Higher Layer an
				Lower Layer Partitioned Communication Protocol Stack for use in a Radio Frequency Communication Network
36767XZAE		09/597917	US	Modular Portable Data Processing Terminal for use in a Radio Frequency Communication Network
38072A	6018555		US	Network Utilizing Modified Preambles that Support Antenna Diversity
36808YXCD	6023147		US	Hand-Held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation
37882YAYA	6046992		US	A Radio Frequency Local Area Network
37882YAYB	•	09/542424	บร	A Radio Frequency Local Area Network
INT096-31	6075807		US	Windowed Digital Matched Filter Circuit for Power Reduction in Battery-Powered CDMA Radios
37882XBA	6084867		US	Apparatus and Method of Routing Data in a Radio Frequency Local Area Network
36837EA	6192400		US	Multilevel Data Communication System Including Local and Host Systems
36767XYE	6244512		US	Hand-Held Data Capture System with Interchangeable Modules
38234RX	6281850		US	Broadband Multiple Element Antenna System
INT097-02	6320896		US	RF Receiver Having Frequency-Hopping/Direct-Sequence Spread Spectrum Signal Discrimination
INT097-03	6327312		US ,	RF Narrowband/Wideband Discriminating System for Spread Spectrum Signal Differentiation
37967CA	6359872	li in the second	US	Wireless Personal Local Area Network

¿Docket-No	Patent No	Serial No	Country	Title
37967CAA		10/101436	US	Wireless Personal Local Area Network
37882YE 37882YEA	6374311	10/123873	US US	Radio Frequency Local Area Network Radio Frequency Local Area Network
37998XGA 37998XGB	6389010	10/141506	US US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones
37882XBB 37882XBC	6400702	10/162229	US US	A Radio Frequency Local Area Network Radio Frequency Local Area Network
38009EBA	6407991		US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
38009EBB		10/144250	US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing